

Intel Delivering a No Wires Experience in Healthcare

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The information in this document is valid for content published starting from October 2013. This material expires on June 2014. New products or information
introduced during this period may result in an update to this document or a Q & A published separately.

Mobile Technology is Transforming Healthcare

- Increased productivity
- Better patient engagement
- Satisfied health care workers
- Improved quality of care

Mobility – The Future of Healthcare

Boystantial Growth forecasted in clinical mobility spending between 2011 and 2016

Source: http://www.mobilehealthmarketnews.com/total-u-s-clinicalmobility-spending-forecast-to-reach-5-4-billion-by-2016/

- Delight clinicians with powerful, easy-to-use mobile devices
- Mobile computing enables hospitals to meet ACA requirements:
 - Collaboration
 - Care coordination
 - Efficiency of care

"No Wires" – The Key to Maximum Mobility

Yesterday: Laptops were mobile, but still required 4 critical wired connections:

- LAN cable later replaced by Wi-Fi
- Display cable (to connect to larger display)
- Physical docking connections
- Power cord





"No Wires" – The Key to Maximum Mobility

Today: Eliminating the wires

- Wireless Display
- Wireless Docking
- Wireless Charging



Wireless Display with Intel® Pro WiDi

Doctors can share charts and images to educate medical students and clinicians

- Enhances education
- Improves communication





Wireless Display with Intel® Pro WiDi

Doctors can collaborate on complex cases, presenting patient charts and images on large screens

- Improved care coordination
- Better quality of care

(intel) Pro WiDi

Wireless Display with Intel® Pro WiDi

Nurses can educate patients on TVs in patient rooms or exam rooms

- Better educate patients on condition management
- Simplified communication of release instructions
- Improved patient satisfaction
- Reduced readmissions
- Reduced length of stay





Wireless Docking via Intel[®] WiGig

Nurses and physicians can instantly dock laptops and tablets at nursing stations and desks

- Gain the power of a fully-equipped workstation (displays, keyboard, mouse, printers, etc.)
- Improved clinical workflow
- Improved clinical productivity



Wireless Charging (future)

Hospital nurses can charge laptops or tablets at nursing station

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- Improved staff satisfaction
- Seamless clinical workflow

Wireless Charging (future)

Homecare nurses can charge laptops or tablets in their car

- Improved productivity
- Better clinical workflow



Why Refresh with No Wires from Intel now?

- Improved clinical workflow
- Staff satisfaction
- Increased productivity
- Patient satisfaction/engagement
- Reduced readmissions/length of stay
- Better quality of care
- Enhances medical student training
- Better collaboration





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WiGig Design Win Funnel

OEM	Platform	Availability	Dock Availability
HP	Elite x2	Now	Now
Dell	Latitude 7250	Late Mar'15	Late Mar'15
	Latitude 7450		
	Latitude 5250		
	Latitude 5450		
	Latitude 5550		
	Latitude 7350 (2in1)	Late Apr'15	



Intel[®] Pro Wireless Display Creative, Productive, Collaborative Meetings

WIRELESS Stay productive in meetings

FLEXIBLE Support wide variety of devices

SHAREABLE Easily pass control while collaborating

PRIVATE Avoid sharing with the wrong person

SECURE Keep your network and laptop data protected

MANAGED Stay in control



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Intel[®] Pro WiDi Considerations

Positioning

- · Remote management of client and conference room
- Employee productivity
- Cost savings
- · Safety and security
- · Full guest support and broad range of devices
- Doesn't consume corporate network resources

Deployments

- · Auto GO, bandwidth options, channels can be set
- · Protecting the network and spectrum
- Deployment guide

Dedicated resources and experts to assist with Intel® Pro WiDi deployments and questions

ISMC References

- vPro Solutions Update for BDMs, SEG-BCPD-vPro-200, Galileo 1001
 - 9 Feb: 1:30pm 10 Feb: 10:30, 2:30
- Implementing No Wires, Demo-NoWires-200
 - 9 Feb: 11am, 3m 10 Feb: 10:30am; 2pm
- Demo Showcase, Download Bar

Deployment Resources



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Intel® Wireless Display in Business

Conference Managed Large Enterprise Room PC Unmanaged Intel® Wireless Small Business Display

"Campfire Creek"

- Intel® vPro™ based device
- Campfire Creek Collaboration Platform
- Intel® Pro Wireless Display Soft Receiver
- Wireless display from anywhere
- Direct peer-to-peer

- Secure and managed
 - Optimized wireless network
 connection
 - Windows and OS X

controls

 Additional collaboration expandability

CHT Atom tablets

Privacy screen and presenter

Works on 4th & 5th Gen Core and

Intel® Pro Wireless Display

- Secure
- Direct with video
- Managed wireless display receiver

Intel® Wireless Display

One to one wireless display with video

Usages

- Campfire Creek
 - Workplace transformation
 - Environment integration
 - Extensibility
 - Future-proof
 - Collaboration beyond one conference room
 - Interactions, whiteboard, annotations
- Wireless Display
 - Content Display



Intel[®] Wireless Docking – Designed for Productivity

At your desk (home or office)

- Docking is complete by the time you sit down
 - Auto-dock starts when you approach your desk
- Full experience without opening the lid
 - Wake the device from the dock or peripherals
- Saves battery life when docked
 - Dock with close lid will reduce overall power consumption
- Simple to operate
 - Automatic configuration, SW updates

In the office

- Robust performance in dense environment
 - Short range & directional
- Enables multi users share same dock at different times
- Select remote management features are available
 - Centralized discovery & upgrade of dock firmware supported



Intel[®] Wireless Dock – Ecosystem & Considerations





Dell® Wireless Dock D5000 Available 1H 2015 \$249 MSRP HP® Wireless Dock Available 1H 2015 \$TBD MSRP



Positioning

- Standardizing on mechanical docks requires support that span vendors and generations
- Freedom of orientation within their offices
- Delighting their end users with exciting usages

Security

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- By nature, WiGig is a secure technology
- Wireless docking uses AES 128 bit HW encryption for all data passed between the client and dock
- User profiles are secure and saved on the client PC, not the dock.

Remote Management

- SW/FW updates can be easily pushed by IT patch tools or management consoles to WiGig-enabled clients
- Intel® SCS 10 support available for remote discovery of detailed WiGig client information via Microsoft's SCCM management console (via SCS add-on) or PowerShell

Operating in Dense Environments

- WiGig signals have limited range
- WiGig operates on multiple channels and can select the optimal channel to use based on congestion levels.
- Ranges for best performance may differ for different form factors & orientations



What is the best docking experience in 2015?



Wireless

Frequent docking and undocking

- No connector or cable dependencies •
- Evolving charging methods, longer client battery life, wireless charging

Intel® Wireless Docking featuring Intel® Wireless Gigabit

- Freedom from wires experience •
- 7 Gbps transfer rate



Single Cable

Infrequent docking and undocking High performance monitors and peripherals

- Small, universal, USB Type-C connectors for • USB and Thunderbolt[™] technology docks
- Data/video and up to 100W of charging power over a single cable

Thunderbolt[™] technology (SKL TTM)

- Thunderbolt™: 40 Gbps
- USB 3.X: 5-10 Gbps



Wireless Charging Product Strategy: Lead with Accessories



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2015 Pilot/PoC Roadmap





Intel Pro WiDi Segmentation

The complete Intel® Pro WiDi solution requires

Wireless Display (intel[®] Pro WiDi An Intel® vPro[™] technology platform An Intel® Pro WiDi-certified Receiver Receivers (intel. intel intel **Certified Intel® Pro** inside inside^{*} inside^{*} **Certified Intel® WiDi** Miracast CORE CORE" i5 CORE[®]i7 WiDi vPro vPro vPro Intel® Pro WiDi Intel® WiDi "Intel® Miracast" WPAN/WLAN isolation Performance & **RX** Performance & Intel® Pro WiDi Clients Quality certified WPAN restricted to WiDi Quality optional **Channel Management** WPAN/WLAN isolation WPAN/WLAN isolation (with Intel WiDi app) **Privacy Features** WPAN restricted to WiDi WPAN restricted to WiDi Transmitters Managed Meetings DCM DCM "Business WiDi" Intel® WiDi "Receiver Legacy" Intel[®] WiDi Clients Performance & **Receiver Performance &** Performance & Quality certified Quality optional Quality certified (with Intel WiDi app) **Channel Management** DCM DCM "Business Miracast" "Client Legacy" **Client Performance &** "Caveat Emptor" Miracast Clients Quality, DCM optional **Client Performance & Overall Performance &** Quality optional, DCM optional Quality optional, DCM optional receiver **Channel Management**

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An Intel[®] Pro WiDi solution is...



Intel® Pro Wireless Display Experience

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Intel vPro Brand Requirements - http://goto.intel.com/vprobrand



Several Wireless Display Solutions Today

Similar Devices to WiDi (Miracast)

Apple* TV AirPlay

- Is a set-top box for Apple* products, Apple* applications and Apple* content
- Uses the network NOT a direct connection...

Google* Chromecast

- Is a set-top box from Google* for the (non-Apple*) Service Providers: Netflix*, YouTube*, Pandora*, etc.
- In order to show anything the application needs to be ported to the Chromecast*...

Why IT is looking for a different solution...

Network bandwidth, content and security issues

- Display streaming takes up too much bandwidth from the WiFi LAN, 4-10M...
- Devices like Apple* TV and Chromecast*
 - Get their content directly from the internet, allowing malicious or undesirable content
 - Do not support the security required by enterprise networks

Network bandwidth and security issues

- Apple* TV has screen mirroring, but only in specific apps...
- Chromecast* has screen mirroring, but must have the Chrome plug-in and tab open; but poorer quality than

Intel WiDi displays ALL content (securely) to any Miracast receiver, with high quality, reliability and security on Pro WiDi receivers

Intel® WiDi vs. Competition

	Apple* Airplay	Google* ChromeCast	Intel WiDi
OS	-iOS -Mac OS X	-Windows -Android, Chrome -iOS, OS X	-Windows 7/8/8.1 -Android OS 4.2 and above
Apps	Most Apps, content	Few apps: HBO GO, Netflix, Hulu Plus, Pandora, YouTube, Google* Play Movies & TV and Google* Play Music and etc.	All apps, content
Transmitter Ecosystem	Apple* devices only: phone, tablet, laptop	Works on any phone/tablet/laptop with right OS and app support Tab/Screen casting only on PC, not supported on smartphone and tablet	Intel Core based laptop Intel Atom based phone/tablet
Receiver Cost	\$99, 1 device only, not worldwide available	\$35, 1 device only, supported in US only	Variety of WiDi adapters Free in some TVs
Ease of use /Compatibility	Single receiver with Apple* brand Easy to install and use	Single receiver with Google* brand Easy to install and use on smartphone and tablet Complicate setup on PC	End to end interoperability and compatibility with WiDi certified receiving devices
Screen Mirror	Yes	Limited via Chrome browser on PC, not supported on smartphone and tablet	Yes
Pro IT	No	No	Yes

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